

Serial No. 09/348,634

Docket No. K-093

Amtd. dated PROPOSED

Reply to Office Action of Sept. 30, 2004
and Advisory Action of Oct. 18, 2004

Amendments to the Drawings:

The attached drawing includes changes to Fig. 7. A formal drawing of Figure 7 will be filed in due course.

Attachment: Marked-up copy of Figure 7

REMARKS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-17 and 21-26 are pending in this present application. Claims 1 and 17 have been amended by the present Amendment, and claims 22-26 have been added by the present amendment.

In the outstanding Office Action, claims 1-4, 6, 8-11 and 13-17 were rejected under 35 U.S.C. § 103(a) as unpatentable over Lo in view of Tiedemann, Jr.; claims 5, 7, 12 and 22 were indicated as allowable if rewritten in independent form; and claim 21 was allowed.

Applicant thanks the Examiner for the indication of allowable subject matter and for discussing this application with the Applicant's representative on November 2, 2004. During the discussion, the differences between the present invention and applied art were discussed. No agreement was reached pending the Examiner's further review when the response is officially filed. Comments presented during the discussion are reiterated below.

Claims 1-4, 6, 8-11 and 13-17 stand rejected under 35 U.S.C. § 103(a) as unpatentable over Lo in view of Tiedemann, Jr. This rejection is respectfully traversed.

Amended claim 1 is directed to a communication including monitoring at a base station a state of a reverse common channel, determining state information of the reverse common channel corresponding to a result of the monitoring, and broadcasting the state information combined with power control information determined based on the state information in a same slot to a mobile station through a forward common channel using

each slot allocated to the forward common channel. Further, the method includes performing a random access of slots to transmit data to the base station on the reverse common channel based on the state information combined with the power control information.

In a non limiting example, Figure 3 illustrates a communication method in which one frame period of a forward common channels assumed to be 20ms, and each frame includes four random access slots (RAS) RAS0-RAS3 allocated thereto. Further, each of the random access slots RAS0-RAS3 has a period of 5ms, including 3 channel information bits each with a size of 1.25ms (CIB0-CIB2) and power\reserve control bit PCB (see also page 7, lines 1-5).

Thus, as shown, the state information corresponding to the channel information bits CIB0-CIB2 is combined with the power control bit PCB in a same slot. As shown in Table 1 at page 8, different combinations of the state information combined with the power control information denote different states. For example, the transmission bits "0000" denote an idle state, the transmission bits "0001" denote an idle reservation state, etc. Thus, the combination of the state information and power control information are used in a same slot to denote different states, which the mobile station may then use to determine whether or not to transmit data on the reverse common channel. That is, as shown in Figure 6, the mobile station performs a random access of slots to transmit data to the base station on the reverse common channel based on the state information combined with the power control information.

The Office Action applies Lo as teaching broadcasting state information to respective mobile station and relies on Tiedemann as disclosing transmitting power control bits.

However, there is no teaching in either of these publications to combine the state information with the power control information in a same slot in which the combinations denote different states as discussed above. Further, Lo and Tiedemann do not teach a communication method in which the mobile terminals perform a random access of slots to transmit data to the base station on the reverse common channel based on the state information combined with the power control information in the same slot.

In more detail, Lo merely teaches information being transmitted to a terminal through a forward channel, and Tiedemann merely teaches a simple power control process using a $\text{MAX } E_b/I_O$, a desired E_b/I_O and a sum of estimated E_b/I_O values of mobile stations to generate commands to control a power of a reverse packet data channel shown in Figure 7. Tiedemann also does not teach or suggest providing power control information which is determined according to status information of a reverse channel when broadcasting through a forward common channel. Further, the applied references do not teach or suggest a mobile station using the state information combined with power control information when accessing a base station as in the present invention.

Accordingly, it is respectfully submitted that independent claims 1 and 17 and each of the claims depending therefrom are also allowable.

Further, the specification has been amended to correct a minor informality and Figure 7 has been amended to correct a spelling error in step S2. It is believe that no new matter has been added.

In addition, new claims 23-26 have been added to set forth the invention in a varying scope, and Applicant submits the new claims are supported by the originally filed specification. In particular, new claims 23-26 illustrates features concerning the slot scheme shown in a forward common channel of Figure 3, for example. It is respectfully submitted new claims 23-26 are allowable for similar reasons as discussed above.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **David A. Bilodeau**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

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concurrent and future replies, including extension of time fees, to Deposit Account 16-0607
and please credit any excess fees to such deposit account.

Respectfully submitted,
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